

CLAIMS:

1. A digital, non spread spectrum, cordless telephone, comprising:  
a baseband circuit (500) consisting of non-application specific circuitry, the non-application specific circuitry including Continuous Variable Slope Delta Modulation (CVSD) circuitry for encoding and decoding voice data; and  
a transmitter (100) having Frequency Division Duplex (FDD) circuitry for transmitting the voice data at a Radio Frequency (RF) transmit power greater than 0dbm.
2. The digital cordless telephone of claim 1, wherein said transmitter (100) limits the Power Spectral Density (PSD) of voice data transmissions to +8dbm in any 3kHz bandwidth.
3. The digital cordless telephone according to claim 1, wherein said baseband circuit (500) further comprises:  
a self-synchronizing scrambler (540) for scrambling the voice data; and  
a self-synchronizing de-scrambler (530) for unscrambling the voice data.
4. The digital cordless telephone according to claim 1, wherein said scrambler (540) and de-scrambler (530) each comprise a polynomial generator.
5. The digital cordless telephone according to claim 1, wherein said baseband circuit (500) further comprises a clock recovery circuit (520) for generating a clock recovery signal based on an Exclusive-OR logic operation performed on the voice data and a time-delayed version of the voice data, the clock recovery signal consisting of a plurality of pulses aligned with rising and falling edges of the voice data.
6. The digital cordless telephone according to claim 1, wherein said transmitter complies with Federal Communications Commission (FCC) Part 15 rule change.

- 10 -

7. A method for transmitting voice data by a digital cordless telephone, comprising the steps of:

encoded (210) voice data using Variable Slope Delta Modulation;

scrambling (220) the encoded voice data using a non Spread Spectrum Technology (SST); and

transmitting (260) the scrambled voice data using Frequency Division Duplex (FDD) and at a Radio Frequency (RF) transmit power greater than 0dbm.

8. The method of claim 7, wherein said transmitting step limits the Power Spectral Density (PSD) of the transmitted scrambled voice data to +8dbm in any 3kHz bandwidth (260).

9. The method of claim 7, wherein said transmitting step complies with Federal Communications Commission (FCC) Part 15 rule change.